

1. A valve assembly comprising:
a first chamber having a first inlet port for a first liquid;
a second chamber having a second inlet port for a second liquid;
an intermediate chamber positioned adjacent said first chamber and said second chamber;
5 a bleeder having an exhaust port in fluid communication with said first chamber;
said bleeder in fluid communication with said first chamber;
an actuator located between said first chamber and said second chamber and slidably
engaged within said intermediate chamber to move from a first position to a second position;
said actuator bearing a valve;
10 said first liquid creating pressure to urge said actuator towards said second position, and
to urge said valve to an exhaust position, allowing air within said intermediate chamber to exit
said intermediate chamber.

2. The valve assembly of claim 1, wherein said valve is operably engaged with a biasing
15 member.

3. The valve assembly of claim 2, wherein said biasing member is a coil spring.

4. The valve assembly of claim 1, wherein said bleeder assembly comprises a bleeder tube body
20 and a cap bleeder.

5. The valve assembly of claim 4, wherein said bleeder tube body contain a float bleeder for
sealing and unsealing said exhaust port.

6. The valve assembly of claim 1, wherein said first liquid is comprised of water, and said second liquid is comprised of a detergent.
- 5 7. The valve assembly of claim 1, wherein said actuator is a plunger rod.
8. The valve assembly of claim 7, wherein said plunger rod is operably engaged with a plunger rod biasing member.
- 10 9. The valve assembly of claim 8, wherein said plunger rod biasing member is a coil spring.
10. The valve assembly of claim 1, further comprising a discharge port to enable discharge spray of a mixture of said first liquid and said second liquid.
- 15 11. The valve assembly of claim 1, further comprising a sealing member operably coupled with said actuator for moving to a selected position to allow said second liquid to enter said second chamber.
12. The valve assembly of claim 11, wherein said sealing member is an o-ring.
- 20 13. A valve assembly comprising:
a first chamber having a first inlet port for a first liquid;
a second chamber having a second inlet port for a second liquid;

an intermediate chamber positioned adjacent said first chamber and said second chamber;

a bleeder having an exhaust port in fluid communication with said first chamber;

said bleeder in fluid communication with said first chamber;

an actuator located between said first chamber and said second chamber and slidably

5 engaged within said intermediate chamber to move from a first position to a second position;

said actuator bearing a valve;

a pump for pumping said first liquid into said first chamber and for pumping a mixture of
said first liquid with said second liquid;

said pump in fluid communication with said first chamber and said intermediate chamber;

10 said first liquid creating pressure to urge said actuator towards said second position, and
to urge said valve to an exhaust position, allowing air within said intermediate chamber to exit
said intermediate chamber;

said actuator bearing a sealing means for engaging and disengaging a seal between said
intermediate chamber and said second chamber;

15 said second liquid entering said intermediate chamber upon disengagement of said seal
between said intermediate chamber and said second chamber.

14. The valve assembly of claim 13, wherein said sealing means is an o-ring.

20 15. The valve assembly of claim 13, wherein said valve is operably engaged with a biasing
member.

16. The valve assembly of claim 15, wherein said biasing member is a coil spring.

17. The valve assembly of claim 13, wherein said bleeder assembly comprises a bleeder tube body and a cap bleeder.

5 18. The valve assembly of claim 17, wherein said bleeder tube body contain a float bleeder for sealing and unsealing said exhaust port.

19. The valve assembly of claim 13, wherein said first liquid is comprised of water, and said second liquid is comprised of a detergent.

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20. The valve assembly of claim 13, wherein said actuator is a plunger rod.

21. The valve assembly of claim 20, wherein said plunger rod is operably engaged with a plunger rod biasing member.

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22. The valve assembly of claim 21, wherein said plunger rod biasing member is a coil spring.

23. The valve assembly of claim 13, further comprising a discharge port to enable discharge spray of a mixture of said first liquid and said second liquid.

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24. The valve assembly of claim 13, further comprising a sealing member operably coupled with said actuator for moving to a selected position to allow said second liquid to enter said second chamber.

25. The valve assembly of claim 24, wherein said sealing member is an o-ring.

26. An extraction cleaner comprising:

- 5 a first tank for containing a first liquid;
 a second tank for containing a second liquid;
 a dispensing port for spraying a mixture of said first liquid and said second liquid;
 said dispensing port in fluid communication with a valve assembly;
 said valve assembly in fluid communication with said first tank and with said second
10 tank, and comprising:
 a first chamber having a first inlet port for said first liquid;
 a second chamber having a second inlet port for said second liquid;
 an intermediate chamber positioned adjacent said first chamber and said second chamber;
 a bleeder having an exhaust port in fluid communication with said first chamber;
15 said bleeder in fluid communication with said first chamber;
 an actuator located between said first chamber and said second chamber and slidably
engaged within said intermediate chamber to move from a first position to a second position;
 said actuator bearing a valve;
 said first liquid creating pressure to urge said actuator towards said second position, and
20 to urge said valve to an exhaust position, allowing air within said intermediate chamber to exit
said intermediate chamber.

27. The extraction cleaner of claim 26, wherein said valve is operably engaged with a biasing member.

28. The extraction cleaner of claim 27, wherein said biasing member is a coil spring.

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29. The extraction cleaner of claim 26, wherein said bleeder assembly comprises a bleeder tube body and a cap bleeder.

30. The extraction cleaner of claim 29, wherein said bleeder tube body contain a float bleeder
10 for sealing and unsealing said exhaust port.

31. The extraction cleaner of claim 26, wherein said first liquid is comprised of water, and said second liquid is comprised of a detergent.

15 32. The extraction cleaner of claim 26, wherein said actuator is a plunger rod.

33. The extraction cleaner of claim 32, wherein said plunger rod is operably engaged with a plunger rod biasing member.

20 34. The extraction cleaner of claim 33, wherein said plunger rod biasing member is a coil spring.

35. The extraction cleaner of claim 26, further comprising a discharge port to enable discharge spray of a mixture of said first liquid and said second liquid.

36. The extraction cleaner of claim 26, further comprising a sealing member operably coupled with said actuator for moving to a selected position to allow said second liquid to enter said second chamber.

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37. The extraction cleaner of claim 36, wherein said sealing member is an o-ring.